

ARM Manus Research Station

Site Visit 0711M Report

Visit Duration: 15 November to 20 November 2007

Manus Island, Papua New Guinea

## Final Report

<b>Site: Manus</b>	<b>Dates on Site: 15 - 20 November</b>
<b>Team Members:</b> Mike Ryczek Dieter Sternberg (VSAT tech)	<b>Required Items &amp; Other Actions:</b> <ul style="list-style-type: none"> <li>• Satellite routers (on site)</li> <li>• USB cable for MPL computer and polarization box - MR to purchase and hand-carry</li> </ul>
<b>Task Summary:</b>	<b>Safety:</b> <u>Major Hazards:</u> Caustic chemicals (KOH), Explosive gas (H2), AC electricity <u>Hazard Controls:</u> BOM Electrolyser Handbook, BM Electrolyzer Operations/Maintenance Training, ASNZS 4836/2001-Safe Working on LV Electrical Installations, 2-man rule  When replacing items (e.g., desiccant, filters, etc.), record and report the quantity of spares left on site.

## SITE TASKS

		High priority / usually non-routine	Low priority / usually routine	Completed
Priority	System	Date Completed (dd/Month)	Service Time (hours)	Tasks For each priority item insert new line (row) for each date/time entry
1	COMM	15/11 - 18/11	34	Install new satellite routers/modems
				15/11 under preparation - configuration check, change out scheduled on 16/11; all parties informed
				16/11 options files obtained from Cheryl (Riverside), configured, checked and uploaded to new satellite iDirect 5150 modems s/n 13122-installed, 40897-spare; antenna BUC and LNB, connections, visual dish - checks performed, Richard Eagan and NOC contacted and change over performed, conference call with NOC in regards to new modem configuration;
				17/11 NOC team managed to lock receive signal up on the modem, 3 peak and pole procedures performed (due to heavy rainfall conditions) successfully - isolation established properly, additional modem checks and procedures performed, conference call and assistance to NOC team and additional professionals in regards to locking up transmit signal and modem network, new modem firmware (falcon 6.0.9) uploaded and configured - needs to be uploaded for Nauru modems!!!, new network IP settings checked as per Richard Eagan request, site left at 1 am due to NOC request on assistance with modem configuration (locking up modem network settings);

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				18/11 NOC team managed to lock up all settings, Richard Eagan contacted - sat link established and network configuration checked - task accomplished <b>Recommendations:</b> modem tray for data rack to be purchased and installed, VSAT dish cleaned with brush and detergent performed periodically (once a 6 months?) - suggested by sat tech Dieter Sternberg - to improve antenna performance.
2	SMET			Replace T/RH probe and compare w/ std
				probe prepared, HM 70 is charging up - task not performed due to heavy rainfall and sat modem change out priority
3	ORG			Perform ORG cal procedure
				task not performed - cal gear held by customs in Lorengau
4	MPL	16/11	1	Replace serial cables between computer and polarization box and laser controller w/ USB cables - TC to purchase
				scheduled for 16/11, e-mail sent to mentor
				16/11 0005 GMT USB cable replaced successfully, confirmation e-mail sent to mentor
5	GENSET	15/11	1.00	Secured and locked diesel storage tank caps with chain and new combination padlocks, combination the same as on existing padlocks
6	Loggernet	15/11		New mouse installed for loggernet computer
	PIR	16/11	2.00	PIR 1 swapped with B&W as per Michael Ritsche request, level checked and adjusted
	PIR	17/11	1.00	PIR-1 swapped with B&W back to previous configuration - as per John Glowacki request.
	MMCR	16/11	3.00	Spare MMCR spectra disks (500Gb LaCie) formatted (NTSF), destination folders created, disks s/n 172904320; 173000032 - they are now ready to use
	SHIPPING			List items to be shipped following visit
				Old and replaced T/RH probes (HMP45Ds) to SGP for calibration - leave one fresh spare - <i>probes prepared for sending to SGP, Hymson instructed</i>
				<b>Std T/RH probe (HM70W) and probe head (HMP 75) to SGP for calibration - left on site as the T/HR probe has not been replaced yet (calibration date - Aug 2007)</b>
				Old BBSS antenna - <i>antenna taken off the van roof and prepared for sending to SGP, Hymson instructed</i>
	FUTURE NEEDS			extension brush - VSAT antenna cleaning, detergent, sat modem tray,